Eata Battery

Titanium Niobium Oxide

Catlog Number: BMAM-0014

Description

High-capacity TNO anode material offering safe operation with a higher voltage plateau to prevent lithium dendrite formation during fast charging.

Basic Information

Chemical Formula: $TiNb_2O_7$

Appearance: White/Grey Powder

D50 Particle Size: 1 - 5 µm

Tap Density: ≥ 1.2 g/cm³

BET Surface Area: 5.0 - 10 m²/g

1st Discharge Capacity: ≥ 260 mAh/g

1st Coulombic Efficiency: ≥ 90%

Carbon Content: N/A

Active Metal Content: Nb: ~60%

Ash Content: ≤ 0.10%

Moisture Content: ≤ 0.05%

pH Value: 7.0 - 9.0

Iron (Fe) Impurity: ≤ 25 ppm

True Density: 4.1 - 4.3 g/cm³

Compaction Density: ≥ 2.4 g/cm³

Crystal Structure: Monoclinic

Surface Coating: Optional C

Magnetic Impurities: ≤ 50 ppb

Electronic Conductivity: ~10^{-5} S/cm

Voltage Range: 1.0 - 3.0 V

Purity: ≥ 99.9%

Primary Application: Safe fast-charge LIB

Thermal Stability: Very High

Cycle Life: ≥ 3000 cycles

Eata Battery delivers the world's battery makers a single, reliable source for every high-performance raw material—cathode to collector, catalyst to membrane—so you can design, scale and ship next-generation batteries faster.

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